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(71) Applicant (for all designated States except US): **THE REGENTS OF THE UNIVERSITY OF COLORADO** [US/US]; 4001 Discovery Drive, Suite 390, Campus Box 588, Boulder, CO 80309 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NEWELL ROGERS, Martha, Karen** [US/US]; 3930 Mariposa Street, Colorado Springs, CO 80907 (US). **VILLALOBOS-MENUEY, Elizabeth** [US/US]; Biology Department, University of Colorado - Colorado Springs, 1420 Austin Bluffs Parkway, SB266, Colorado Springs, CO

80918 (US). **MELAMEDE, Robert** [US/US]; Biology Department, University of Colorado - Colorado Springs, 1420 Austin Bluffs Parkway, SB266, Colorado Springs, CO 80918 (US). **CAMLEY, Robert** [US/US]; Biology Department, University of Colorado - Colorado Springs, 1420 Austin Bluffs Parkway, SB266, Colorado Springs, CO 80918 (US).

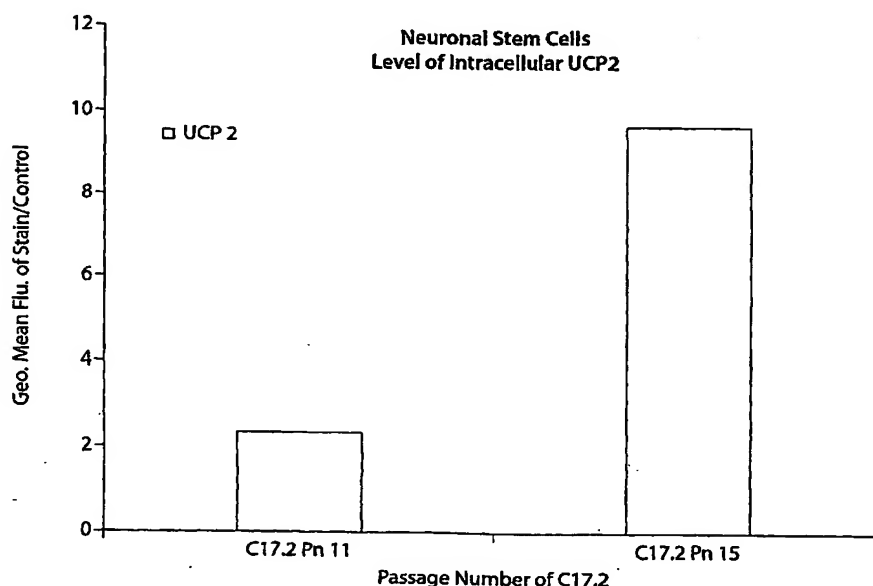
(74) Agent: **LOCKHART, Helen, C.**; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).

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(54) Title: **DIAGNOSTIC AND THERAPEUTIC TREATMENTS RELATED TO MITOCHONDRIAL DISORDERS**



(57) Abstract: The invention is based in part on the discovery that chromosomal disorders such as Down Syndrome can be diagnosed by assessing maternal mitochondrial status. Thus the invention relates to diagnostic and therapeutic methods and related products for chromosomal disorders such as Down Syndrome, for example, for identifying a risk of fetal Down syndrome and methods of mitigating that risk. The methods also re useful for other therapies where it is desirable to manipulate mitochondria such as tissue generation.

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